UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,373	07/08/2003	Eitan Rosen	42P6380C	2337

7590 01/21/2005	EXAMINER
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP	DU, THUAN N

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Seventh Floor
12400 Wilshire Boulevard
Los Angeles, CA 90025

ART UNIT	PAPER NUMBER
2116	

DATE MAILED: 01/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>05 November 2004</u>.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>26-50</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) <u>33-40 and 44-50</u> is/are allowed.

6)☒ Claim(s) <u>26-32 and 41-43</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

1.   It is hereby acknowledged that the following papers have been received and placed of

record in the file: Amendment (dated 11/05/04).

2.   Claims 26-50 are presented for examination.

3.   The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

Claim Rejections - 35 USC § 103

4.   Claims 26-32 and 41-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Gorny (U.S. Patent No. 5,642,061) and Furber (U.S. Patent No. 5,918,042).

5.   Regarding claims 26 and 27, Gorny teaches a device comprising:

a clock circuit to receive an input clock signal (502) and an enable signal (310) and to

generate a pre-charge pulsed clock signal and an evaluate pulsed clock signal based on the input

clock signal and the enable signal, to pre-charge and evaluate a circuit respectively [col. 7, line

62 to col. 8, line 8; col. 8, lines 19-21]; and

a pre-charge circuit coupled to the clock circuit to receive the pre-charge pulsed clock

signal (314) and the enable signal (310) to pre-charge the circuit, while the circuit is not being

evaluated via the evaluate pulsed clock signal [col. 5, lines 33-41, 65-67],

Gorny does not explicitly teach that the enable signal, when de-activated, causes the pre-

charge circuit to continue pre-charging the circuit after pulsed time of the pre-charge pulsed

clock signal.

Furber teaches a system comprising a dynamic logic circuit (4) [Fig. 1], wherein the pre-charge and evaluation of the circuit depend on an enable signal. The circuit is pre-charged when the enable signal is de-activated (low) [col. 5, lines 32-33], and evaluated only when the enable signal is activated (high) [col. 5, lines 28-29].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Gorny to use the existing enable signal the control the pre-charge and evaluation cycles as taught by Furber because they both teach system for controlling pre-charge cycle and evaluation cycle of a logic circuitry.

6.   Regarding claims 28-32, claims 28-32 are directed to apparatuses implementing the apparatus for performing a pre-charge and an evaluation using pulsed clock signals of claim 26. As stated above, Gorny and Furber teach the invention substantially as set forth in claim 26. At the time of the invention, one of ordinary skill in the art would have readily recognized that Gorny and Furber may also teach the implementations of claim 26 as set forth in claims 28-32 [Gorny, col. 8, lines 9-20]. As such, claims 28-32 are rejected under same rationale with respect to claim 26.

7.   Regarding claims 41-43, since they recite method of operating of the apparatus defined in the apparatus claims, they are rejected accordingly based on the rejection of the apparatus claims.

Allowable Subject Matter

8.   Claims 33-40 and 44-50 are allowed.

Conclusion

9.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan N. Du whose telephone number is (571) 272-3673. The examiner can normally be reached on Monday and Wednesday-Friday: 9:30 AM - 8:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (571) 272-3670.

Central TC telephone number is (571) 272-2100.

The fax number for the organization is (703) 872-9306.

10.   Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Thuan N. Du
January 13, 2005